

ABSTRACT

A process for producing a diesel fuel having at least 70% C₁₀₊ paraffins,
5 wherein the iso-paraffin to normal paraffin mole ratio is 5:1 and higher. This
diesel fuel is produced by from a feed containing at least 40% C₁₀₊ normal
paraffins and at least 20% C₂₆₊ normal paraffins. It is produced by contacting
that feed in an isomerization-cracking reaction zone a feed with a catalyst
comprising a SAPO-11 and platinum in the presence of hydrogen
10 (hydrogen:feed ratio of from 1,000 to 10,000 SCFB) at a temperature of from
340° C to 420° C, a pressure of from 100 psig to 600 psig, and a liquid hourly
space velocity of from 0.1 hr⁻¹ to 1.0 hr⁻¹.

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